

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Withdrawn) An isolated polypeptide selected from the group consisting of:
  - a) a polypeptide comprising an amino acid sequence of SEQ ID NO: 4,
  - b) a polypeptide encoding an allelic or recombinant variant of the amino acid sequence of SEQ ID NO: 4, wherein said variant
    - iii) has an insertion or deletion of 1-5 amino acids as compared with SEQ ID NO: 4; and/or
    - ii) has one or more amino acid substitutions as compared with SEQ ID NO: 4, and has the amino acid sequence of SEQ ID NO: 4 at amino acids 1, 4, 6, 7, 10, 15, 19, 31-32, 35, 38, 41, 48, 52, 54, 57-58, 60-61, 64, 71, 75-78, 80, 82-84 and 90,
    - iii) and further wherein the variant has chemokine activity,
  - c) a biologically active fragment of a polypeptide having an amino acid sequence of SEQ ID NO: 4, wherein said fragment has chemokine activity, and
  - d) an immunogenically active fragment of a polypeptide having an amino acid sequence of SEQ ID NO: 4, wherein said immunogenically active fragment is capable of generating an antibody that specifically binds to the peptide of SEQ. ID NO: 4.
2. (Withdrawn) An isolated polypeptide of claim 1, having the sequence of SEQ ID NO: 4.

3. (Currently Amended) An isolated polynucleotide encoding a polypeptide selected from the group consisting of:

- a) a polypeptide consisting of the amino acid sequence of SEQ ID NO: 4,
- b) a polypeptide variant of the amino acid sequence of SEQ ID NO: 4, wherein the variant ~~shares at least 97% sequence identity with SEQ ID NO: 4, and the variant~~ has chemokine activity and;
  - (i) has an insertion or deletion of 1-5 amino acids as compared to SEQ ID NO: 4; or
  - (ii) has at least one amino acid substitution as compared with SEQ ID NO: 4; or
  - (iii) a combination of (i) and (ii)
- c) a biologically active fragment of a polypeptide that consists essentially of the amino acid sequence of SEQ ID NO: 4, wherein said fragment has chemokine activity and is at least 5 amino acids in length, and
- d) an immunogenic fragment of a polypeptide that consists essentially of the amino acid sequence of SEQ ID NO: 4, and wherein the immunogenic fragment is at least 5 amino acids in length and is capable of generating an antibody that specifically binds to the peptide of SEQ. ID NO: 4, and the immunogenic fragment possesses biological activity.

4. (Previously Presented) An isolated polynucleotide encoding the polypeptide of SEQ ID NO: 4.

5. (Previously Presented) An isolated polynucleotide of claim 4, wherein said polynucleotide consists of the sequence of SEQ ID NO: 3.

6. (Original) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 3.

7. (Original) A cell transformed with a recombinant polynucleotide of claim 6.
8. (Original) A transgenic organism comprising a recombinant polynucleotide of claim 6.
9. (Currently Amended) A method for producing a polypeptide selected from the group consisting of:
  - a) a polypeptide consisting of the amino acid sequence of SEQ ID NO: 4,
  - b) a polypeptide variant of the amino acid sequence of SEQ ID NO: 4, wherein the variant ~~shares at least 97% sequence identity with SEQ ID NO: 4, and the variant~~ has chemokine activity and;
    - (i) has an insertion or deletion of 1-5 amino acids as compared to SEQ ID NO: 4; or
    - (ii) has at least one amino acid substitution as compared with SEQ ID NO: 4; or
    - (iii) a combination of (i) and (ii),
  - c) a biologically active fragment of a polypeptide at least 5 amino acids in length that consists essentially of the amino acid sequence of SEQ ID NO: 4, wherein said fragment has chemokine activity and is at least 5 amino acids in length, and
  - d) an immunogenic fragment of a polypeptide that consists essentially of the amino acid sequence of SEQ ID NO: 4, wherein the immunogenic fragment is at least 5 amino acids in length and is capable of generating an antibody that specifically binds to the peptide of SEQ. ID NO: 4, and the immunogenic fragment possesses biological activity,

the method comprising:

- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant

polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and

- b) recovering the polypeptide so expressed.
10. (Previously Presented) A method of claim 9, wherein the polypeptide consists of the amino acid sequence of SEQ ID NO: 4.
11. (Withdrawn) An isolated antibody which specifically binds to a polypeptide of claim 1.
12. (Previously Presented) An isolated polynucleotide comprising a sequence selected from the group consisting of:
- a) a polynucleotide consisting of the polynucleotide sequence of SEQ ID NO: 3,
  - b) a polynucleotide sequence variant of SEQ ID NO: 3, wherein said variant encodes an amino acid sequence of SEQ ID NO: 4,
  - c) a polynucleotide having a sequence fully complementary along its length to the polynucleotide of a),
  - d) a polynucleotide having a sequence fully complementary along its length to the polynucleotide of b) and
  - e) an RNA equivalent of a)-d).
13. (Previously Presented) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of SEQ ID NO: 3.
14. (Withdrawn) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 12, the method comprising:

- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
  - b) detecting the presence or absence of said hybridization complex, and, optionally if present, the amount thereof.
15. (Withdrawn) A method of claim 14, wherein the probe comprises at least 60 contiguous nucleotides.
16. (Withdrawn) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 12, the method comprising:
- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
  - b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
17. (Withdrawn) A composition comprising a polypeptide of claim 1 and a pharmaceutically acceptable excipient.
18. (Withdrawn) A composition of claim 17, wherein the polypeptide has the amino acid sequence of SEQ ID NO: 4.
19. (Canceled)
20. (Withdrawn) A method for screening a compound for effectiveness as an agonist of a polypeptide of claim 1, the method comprising:

- a) exposing a sample comprising a polypeptide of claim 1 to a compound,  
and
- b) detecting agonist activity in the sample.

21.-22. (Canceled)

23. (Withdrawn) A method for screening a compound for effectiveness as an antagonist of a polypeptide of claim 1, the method comprising:

- a) exposing a sample comprising a polypeptide of claim 1 to a compound,  
and
- b) detecting antagonist activity in the sample.

24.-59. (Canceled)

60. (Canceled)

61. (Canceled)

62. (Previously Presented) An isolated polynucleotide sequence encoding a polypeptide that comprises an amino acid sequence having ~~at least 97% sequence identity to the amino acid sequence of SEQ ID NO: 4 and possesses chemokine activity and:~~

- a) having an insertion or deletion of 1-5 amino acids as compared to SEQ ID NO: 4; or  
(ii) having at least one amino acid substitution as compared with SEQ ID NO: 4; or
- b) a combination of (a) and (b).

Claims 63-66. (Cancelled).